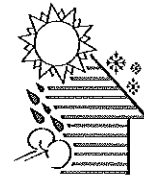


Work Order Bid (ID)

CAC Housing Energy Services



CAC Housing &
Energy Services

WORK ORDER INFORMATION

Work Order Name: WO/80008KN1794/1

Work Order Type: Weatherization

Audit Name: 80008KN1794-audit

CLIENT INFORMATION

Client ID: 80008KN1794

AGENCY INFORMATION

Agency: Knoxville- Knox County Community Action Agency

Agency Phone: (865) 244-3080

Address: (PO Box 51650) 2247 Western Avenue
Knoxville, TN 37950-1650

Fax: (865) 544-1647

Email Address:

Agency Contact: Jackson, Rocky

Work Phone: (865) 244-3080

Cell Phone:

Email Address: rocky.jackson@cachousing.org

Company Name & License Number: _____

Contractor's Signature: _____

COMMENT

Comments

Single Family Dwelling

Contractor to follow 2006 International Residential Code as adopted by the City of Knoxville or Knox County as applicable.

City-House age is 1950

RRP Certified Firm/Renovator Required

Measures

Measure 1 Flex Duct (12") 8 ft	Components	Inspected						
Comment Flex Duct must be sized correctly. Flex Duct to be installed with straightest and shortest route, Must be secured with straps to alleviate sagging, and must be pulled tight so that inner liner is fully stretched out. Must have a minimum of R-8 insulation around it. Must be attached with zip tie and then taped with appropriate UL 181 tape. No changes allowed. Refer to Appendix A- Standards for Weatherization Materials and Tennessee Weatherization Field Guide. Needed at unit location.		<input style="width: 40px; height: 20px;" type="checkbox"/>						
# Material / Labor	Description / Comment	Units	Qty	Estimated		Actual		
				Unit Cost	Total	Qty	Unit Cost	Total
1 Labor	labor	Linear Foot	8	<input style="width: 60px;" type="text"/>	<input style="width: 60px;" type="text"/>	<input style="width: 60px;" type="text"/>	<input style="width: 60px;" type="text"/>	<input style="width: 60px;" type="text"/>
1 Unspecified	Flex Duct	Linear Foot	8	<input style="width: 60px;" type="text"/>	<input style="width: 60px;" type="text"/>	<input style="width: 60px;" type="text"/>	<input style="width: 60px;" type="text"/>	<input style="width: 60px;" type="text"/>
Other Detail								
<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>	<input style="width: 60px;" type="text"/>	<input style="width: 60px;" type="text"/>	<input style="width: 60px;" type="text"/>	<input style="width: 60px;" type="text"/>	<input style="width: 60px;" type="text"/>	<input style="width: 60px;" type="text"/>	<input style="width: 60px;" type="text"/>
<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>	<input style="width: 60px;" type="text"/>	<input style="width: 60px;" type="text"/>	<input style="width: 60px;" type="text"/>	<input style="width: 60px;" type="text"/>	<input style="width: 60px;" type="text"/>	<input style="width: 60px;" type="text"/>	<input style="width: 60px;" type="text"/>
Measure Sub Total:						<input style="width: 60px;" type="text"/>	Sub Total:	
Field Notes:								

Measure 2 HVAC Shroud**Components****Inspected**

Comment Build 4 sided shroud between house and unit. Shroud made of 28 gauge galvanized metal. Use S-lock to join metal. Seal all edges with appropriate silicone. No changes allowed.
Refer to Attachment A-Standards for Weatherization Materials and Southeast Field Guide.

☐

#	Material / Labor	Description / Comment	Units	Qty	Estimated		Actual		
					Unit Cost	Total	Qty	Unit Cost	Total
1	Construction Mate	HVAC Shroud	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
1	Labor	Labor Refer to Attachment A- Standards for Weatherization Materials and Southeast Field Guide.	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Other Detail

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Measure Sub Total:**Sub Total:****Field Notes:**

Comment



Attic Insulation

Includes labor cost. Contractor to install 1 ruler for every 300 square foot of attic space showing depth of insulation. Insulation should cover the entire area intended for insulation without voids or edge gaps. Blown insulation should be installed at sufficient density to resist settling, according to manufacturer's instructions. Loose fiberglass is blown in attics from 0.5 to 0.9 pcf and at that density the R-value is around 3.2 per inch. Loose cellulose is blown in attics from 0.6 to 1.2 pcf and at that density range, the R-value is around 3.7 per inch. Insulation should be protected from air migrating around and through it by an effective air barrier. Air sealing attics must precede attic insulation and this may require removing existing insulation and debris that currently prevent effective air sealing. Box around recessed light fixtures and exhaust fans to prevent overheating and/or fire. Install collars or dams around masonry chimneys, B-vent chimneys, and manufactured chimneys after sealing the air leaks around them. ✓ If rolled metal is used as a barrier around heat-producing devices or chimneys, it must be fastened securely to the ceiling joist so the barrier won't collapse. Barriers should extend at least 4 inches above the insulation and be secured to keep insulation a minimum of 3 inches away from the heat-producing device. ✓ All-fuel wood-stove chimneys should have ventilated insulation shields. Covering recessed light fixtures: Covering recessed light fixtures with fire-resistant drywall or sheet-metal enclosures reduces air leakage and allows insulation to be blown around the box. ✓ If you plan to cover an electrical junction box with insulation, mark its location with a sign, flag, or other marker.

Install baffles in every joist or truss bay to ensure no insulation enters the soffit area. Seal holes, gaps, and penetrations in attic before insulating. Seal around chimney with sheet metal and high temperature silicone or fire resistant foam. Install R-30 fiberglass batt secured to attic access and weather strip with foam tape. Contractor to install using Resnet Grade 1 Standards. Refer to Appendix A- Standards for Weatherization Materials and Tennessee Weatherization Field Guide. The addition of insulation in an existing home is a common weatherization measure. Whenever there is installation of any type of floor, wall, or attic insulation, the Contractor must provide a certificate. This certificate is referred to as a "receipt" in the Federal Trade Commission's (FTC) guidance. This will be effective with any job posted August 15th or later.

This certificate should be given to the Client and/or Owner of the property. In addition, a copy of the certificate must be posted at the property and a copy of the certificate must be inserted in the Client's file and retained at the Agency.

Points to remember about the Insulation Certificate:

- The copied certificate posted at the property should be secured to a rafter, stud, or joist. It must be in plain view and placed close to an opening of the crawl space or attic for accessibility.

- For wall insulation a certificate should be secured on a wall in the attic if possible.

•A certificate can combine areas where insulation was installed as long as the certificate reflects all information for each area.

•For roll insulation the certificate must clearly show all the coverage area(s) where the insulation was installed, thickness of the insulation, and the R-value of the insulation installed. The certificate must be dated and signed by the Insulation Contractor.

•For loose-fill insulation, the certificate must be dated and signed by the Contractor, show all the coverage area(s), initial installed thickness, minimum settled thickness, R-value, and the number of bags used.

•Although this insulation has not been approved by DOE for insulating use in the WAP, per the FTC, spray foam insulation certificate must be signed and dated by the Contractor, show all the coverage area(s) of the insulation and the R-value of the insulation installed.

•For aluminum foil, the receipt must show all the coverage area(s), the number and thickness of the air spaces, the direction of heat flow, and the R-value.

When providing the insulation certificate, Contractors who install insulation must comply with federal regulation 460.17.

§ 460.17 What installers must tell their customers.

If you are an installer, you must give your customers a contract or receipt for the insulation you install. For all insulation except loose-fill and aluminum foil, the receipt must show the coverage area, thickness, and R-value of the insulation you installed. The receipt must be dated and signed by the installer. To figure out the R-value of the insulation, use the data that the manufacturer gives you. If you put insulation in more than one part of the house, put the data for each part on the receipt. You can do this on one receipt, as long as you do not add up the coverage areas or R-values for different parts of the house. Do not multiply the R-value for one inch by the number of inches you installed. For loose-fill, the receipt must show the coverage area, initial installed thickness, minimum settled thickness, R-value, and the number of bags used. For aluminum foil, the receipt must show the number and thickness of the air spaces, the direction of heat flow, and the R-value.

Weatherstrip the attic access to air seal the access and provide uninterrupted air barrier between the attic and conditioned space. It is the best practice to seal hatches in the unconditioned space such as carports and attached garages and stairwells. All attic hatches must have a locking device that securely hold the access in place and slightly compresses the weatherstripping..

#	Material / Labor	Description / Comment	Units	Qty	Estimated		Actual		
					Unit Cost	Total	Qty	Unit Cost	Total
Client ID: 80008KN1794			Work Order Bid (ID)			DOE Weatherization Assistant			
			WO/80008KN1794/1			Version 8.6.0			
			Report Run On: 9/22/2011			Page 5 of 13			

1	Labor	Attic Insulation - Cellulose, Blown - R-19	SqFt	756	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
1	Insulation	Attic Insulation - Cellulose, Blown - R-19	SqFt	756	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
2	Miscellaneous Su	Attic access weatherstrip & hooks	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
2	Labor	labor	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Other Detail

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Measure Sub Total:

Sub Total:

Field Notes:

Measure 4 Lighting Retrofits**Components** I1,I2,I3,I4,I5**Inspected****Comment** Lighting☐

Replace incandescent light bulb with compact fluorescent bulb equal to the incandescent. Inform customers about proper recycling of fluorescent bulbs by stores, municipal waste departments, or other recycling organizations. Refer to Appendix A- Standards for Weatherization Materials and Tennessee Weatherization Field Guide.

#	Material / Labor	Description / Comment	Units	Qty	Estimated		Actual		
					Unit Cost	Total	Qty	Unit Cost	Total
1	Lighting	Compact Fl. - 13 Watt	Each Lamp	4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
2	Labor	Compact Fl. - 13 Watt	Each Lamp	4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
3	Lighting	Compact Fl. - 13 Watt	Each Lamp	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
4	Labor	Compact Fl. - 13 Watt	Each Lamp	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
5	Lighting	Compact Fl. - 13 Watt	Each Lamp	3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
6	Labor	Compact Fl. - 13 Watt	Each Lamp	3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
7	Lighting	Compact Fl. - 13 Watt	Each Lamp	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
8	Labor	Compact Fl. - 13 Watt	Each Lamp	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
9	Lighting	Compact Fl. - 13 Watt	Each Lamp	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
10	Labor	Compact Fl. - 13 Watt	Each Lamp	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Other Detail

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Measure Sub Total:**Sub Total:****Field Notes:**

Measure 5	DWH Pipe Insulation	Components	Inspected
Comment	Water Heater		<input type="checkbox"/>

Includes labor cost. Insulate the first 6 feet of hot and cold water pipe from water heater. Use pipe wrap with a R-value of at least 2. Cover elbows, unions, and other fittings to the same thickness as pipe. All corners must be cut properly. Keep pipe insulation 6 inches away from single wall vent pipe and 1 inch away from Type B vent. Interior diameter of pipe sleeve must match exterior diameter of pipe. Fasten with zip ties, tape, or other

#	Material / Labor	Description / Comment	Units	Qty	Estimated		Actual		
					Unit Cost	Total	Qty	Unit Cost	Total
1	Insulation	DHW Pipe Insulation	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
2	Labor	DHW Pipe Insulation	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Other Detail

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Measure Sub Total: **Sub Total:**

Field Notes:

Water heaters should be re-insulated to at least R-10 with an external insulation blanket unless water heater label gives specific instructions not to insulate or the water heater is already insulated. Keep insulation at least 2 inches away from gas valve and burner access panel. Don't install insulation below the burner access panel .Flammable Vapor Ignition Resistant models have combustion intake vents that must be left open. Follow the manufacturer's instructions when installing insulation blankets on (FVIR) water heaters so to not damage unit. Don't cover the pressure relief valve and discharge pipe with insulation. Don't insulate the tops of gas fired water heaters to avoid obstructing drat diverter. Mark the blanket to locate the thermostat and heating element access plates or cut the blanket at these locations. When you cut the blanket , cut the bottom and the sides but not the top. This creates a flap that remains closed in place. Don't cover the pressure relief valve and discharge line. Cover the top of the water heater with insulation if it doesn't obstruct the pressure relief valve. Install three zip tie straps (1st 6" from the top 2nd in the Middle, 3rd- 6" from Bottom).

#	Material / Labor	Description / Comment	Units	Estimated			Actual		
				Qty	Unit Cost	Total	Qty	Unit Cost	Total
1	Hot Water Equipm	DHW Tank Insulation	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
2	Labor	DHW Tank Insulation	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Other Detail									
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Measure Sub Total:						<input type="text"/>	Sub Total:		

Field Notes:

Comment Floor Insulation

Includes labor cost. Contractor's responsibility to seal penetration in floor before installing insulation. Contractor to install using Resnet Grade 1 Standards. Insulation faced or unfaced is installed to maintain permanent contact with the subfloor above (paper side against subfloor) including necessary supports (e.g. staves for blankets). Insulation to have NO gaps, voids, or compressions. ✓ Install R19 insulation between floor joists. ✓ Insulation should be installed snugly against the floor and without voids or gaps. ✓ Insulation should fit snugly around cross bracing and other obstructions. ✓ securely fasten batt insulation to framing with insulation hangers, plastic mesh, or other supporting material. Insulation should contact subfloor to prevent convecting air above the insulation from reducing its R-value. ✓ Faced insulation should be installed with the foil or kraft facing placed up towards the floor sheathing. The batt should fill the whole cavity If insulation is supported by lath or plastic twine underneath. For batts that do not feel the whole cavity , use wire insulation supports .It is important that ground moisture barrier is properly installed in the crawlspace to protect the insulation and ensure proper R-value is achieved. Floor insulation should fit tightly against the rim joist. ✓ If balloon framed, air seal stud cavities prior to installing floor insulation. Refer to Appendix A- Standards for Weatherization Materials and Tennessee Weatherization Field Guide. The addition of insulation in an existing home is a common weatherization measure. Whenever there is installation of any type of floor, wall, or attic insulation, the Contractor must provide a certificate. This certificate is referred to as a "receipt" in the Federal Trade Commission's (FTC) guidance. This will be effective with any job posted August 15th or later.

This certificate should be given to the Client and/or Owner of the property. In addition, a copy of the certificate must be posted at the property and a copy of the certificate must be inserted in the Client's file and retained at the Agency.

Points to remember about the Insulation Certificate:

- The copied certificate posted at the property should be secured to a rafter, stud, or joist. It must be in plain view and placed close to an opening of the crawl space or attic for accessibility.
- For wall insulation a certificate should be secured on a wall in the attic if possible.
- A certificate can combine areas where insulation was installed as long as the certificate reflects all information for each area.
- For roll insulation the certificate must clearly show all the coverage area(s) where the insulation was installed, thickness of the insulation, and the R-value of the insulation installed. The certificate must be dated and signed by the Insulation Contractor.
- For loose-fill insulation, the certificate must be dated and signed by the Contractor, show all the coverage area(s), initial installed thickness, minimum

settled thickness, R-value, and the number of bags used.

•Although this insulation has not been approved by DOE for insulating use in the WAP, per the FTC, spray foam insulation certificate must be signed and dated by the Contractor, show all the coverage area(s) of the insulation and the R-value of the insulation installed.

•For aluminum foil, the receipt must show all the coverage area(s), the number and thickness of the air spaces, the direction of heat flow, and the R-value.

When providing the insulation certificate, Contractors who install insulation must comply with federal regulation 460.17.

§ 460.17 What installers must tell their customers.

If you are an installer, you must give your customers a contract or receipt for the insulation you install. For all insulation except loose-fill and aluminum foil, the receipt must show the coverage area, thickness, and R-value of the insulation you installed. The receipt must be dated and signed by the installer. To figure out the R-value of the insulation, use the data that the manufacturer gives you. If you put insulation in more than one part of the house, put the data for each part on the receipt. You can do this on one receipt, as long as you do not add up the coverage areas or R-values for different parts of the house. Do not multiply the R-value for one inch by the number of inches you installed. For loose-fill, the receipt must show the coverage area, initial installed thickness, minimum settled thickness, R-value, and the number of bags used. For aluminum foil, the receipt must show the number and thickness of the air spaces, the direction of heat flow, and the R-value.

#	Material / Labor	Description / Comment	Units	Estimated			Actual		
				Qty	Unit Cost	Total	Qty	Unit Cost	Total
1	Insulation	Floor Insulation - Fiberglass Faced Batt - R-19	SqFt	888	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
2	Labor	Floor Insulation - Fiberglass Faced Batt - R-19	SqFt	888	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Other Detail

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Measure Sub Total:

Sub Total:

Field Notes:

Measure 8 PressureRelief Piping Needed	Components	Inspected
Comment		<input type="checkbox"/>

A water heater must have a pressure-and-temperature relief valve and a safety discharge pipe. Install a relief valve and discharge pipe if none exists. The discharge pipe should terminate 6 inches above the floor or outside the dwelling as specified by local codes. The discharge pipe should be made of rigid metal pipe or approved high temperature plastic pipe.

#	Material / Labor	Description / Comment	Units	Qty	Estimated		Actual		
					Unit Cost	Total	Qty	Unit Cost	Total
1	Health and Safety	Pressure relief piping	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
2	Labor	Labor	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Other Detail

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Measure Sub Total: **Sub Total:**

Field Notes:

Measure 9 Vapor Barrier Needed 1000 sq ft**Components****Inspected****Comment**☐

Must be 6 mil poly. Must be installed 100% of crawlspace installed without voids or gaps with 6" turned up all foundation walls and interior support piers and must be securely fastened with polyurethane adhesive or acoustical sealant and (wood furring strips) . Must be secured at all seams. Overlap at least 12" at all joints. Seal the seams in the moisture barrier with construction tape or acoustical sealant making it a air moisture barrier. Keep plastic at least 3" away from any wood construction material. Refer to Appendix A- Standards for Weatherization Materials and Tennessee Weatherization Field Guide.

#	Material / Labor	Description / Comment	Units	Qty	Estimated		Actual		
					Unit Cost	Total	Qty	Unit Cost	Total
1	Health and Safety	Basement / Crawlspace Vapor Barrier	SqFt	1000	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
2	Labor	Labor	SqFt	1000	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

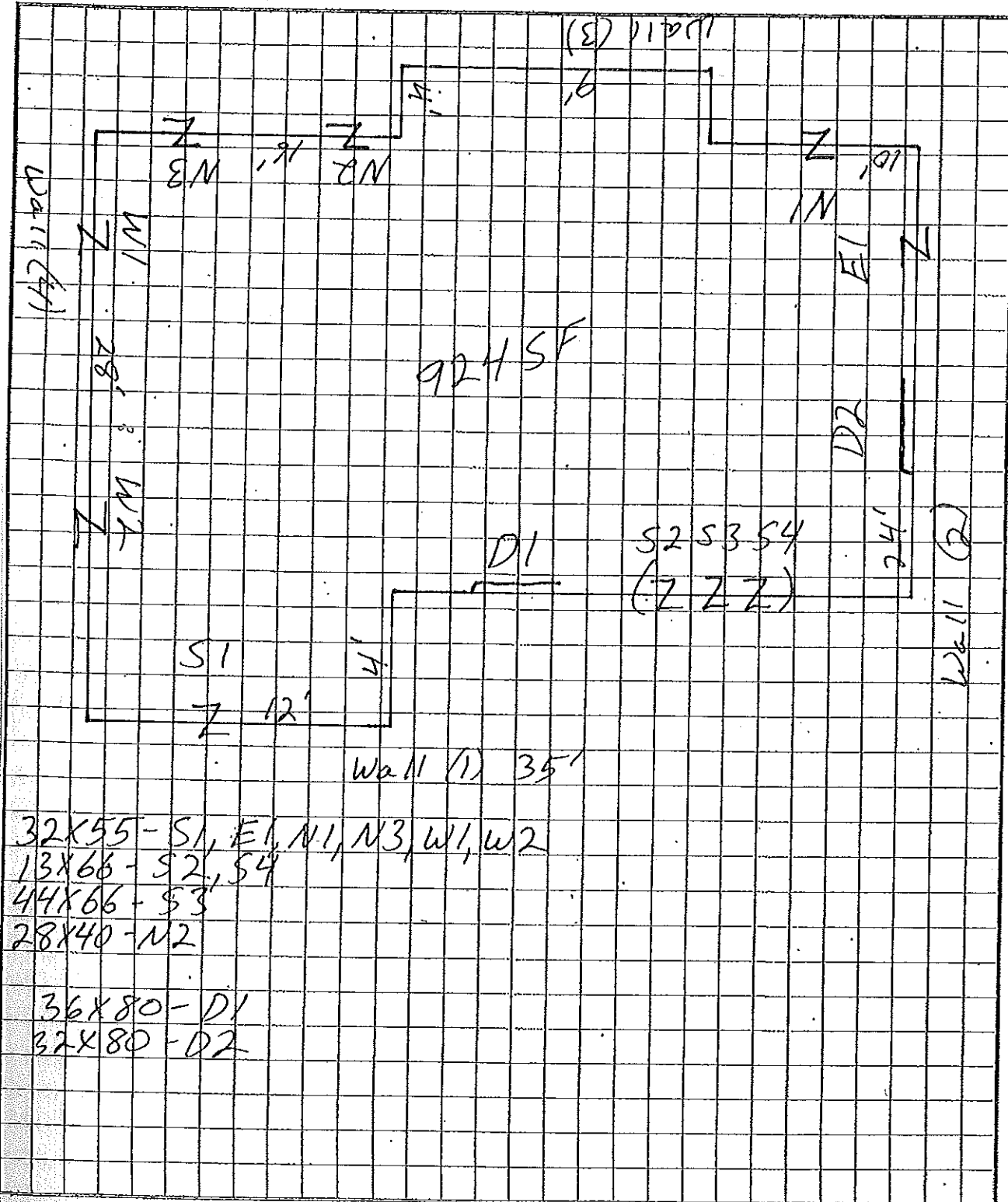
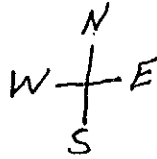
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<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Measure Sub Total:**Sub Total:****Field Notes:****Work Order Grand Total:****Grand Total:**

Site Diagram

1794

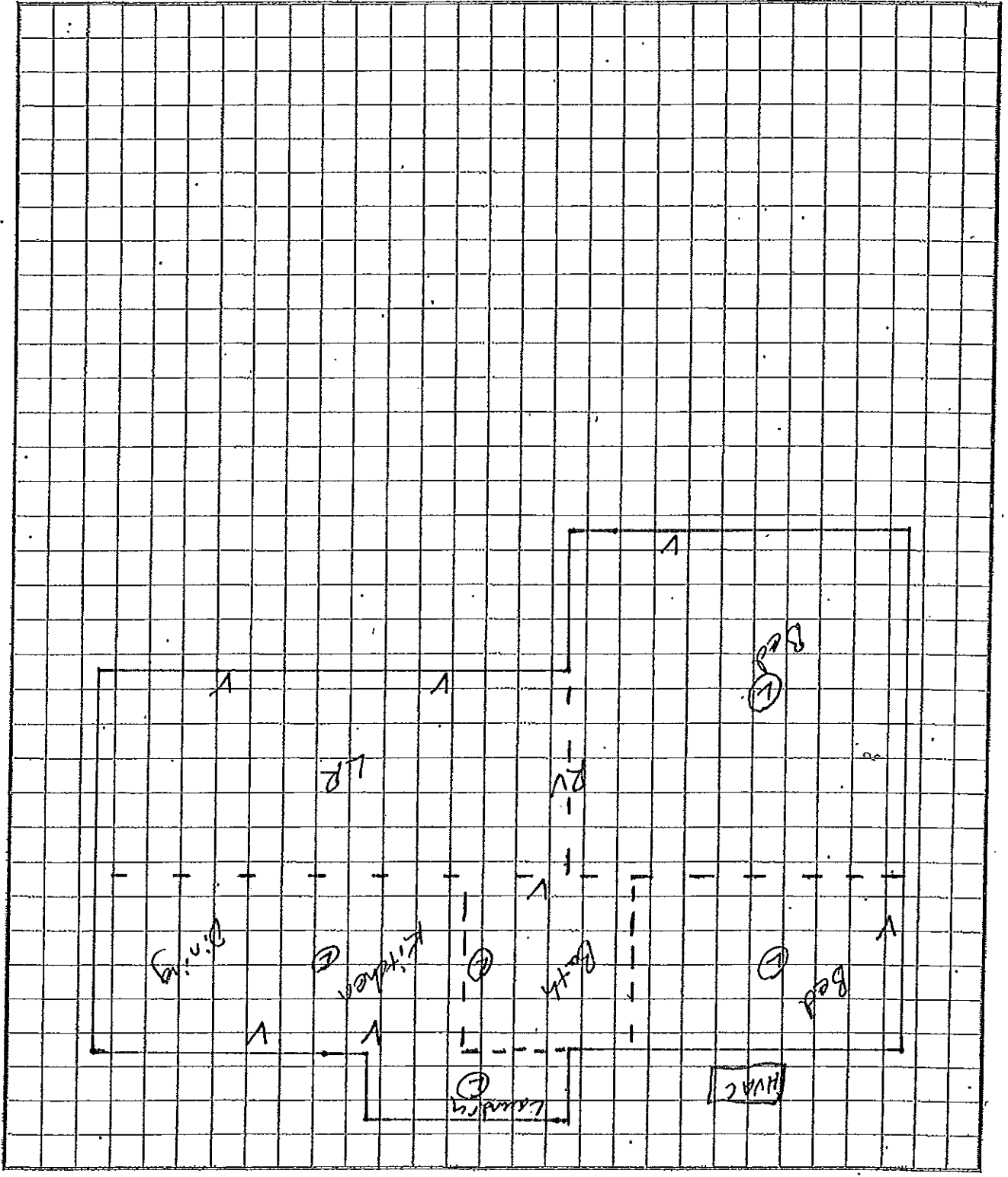


- 32X55 - S1, E1, N1, N3, W1, W2
- 13X66 - S2, S4
- 44X66 - S3
- 28X40 - N2
- 36X80 - D1
- 32X80 - D2

Client Name:

Client ID:

Alt. Client ID:



1794

Site Diagram